Interview Summary	Application No.	Applicant(s)	
	10/065,740	AKKARAM ET AL.	
	Examiner	Art Unit	
	Ayal I. Sharon	2123	

All participants (applicant, applicant's representative, PTO personnel):

(1) *Ayal I. Sharon (Examiner)*. (3)_____.

(2) *Tait Swanson (Applicant's Representative)*. (4)_____.

Date of Interview: *15 November 2006*.

Type: a)☒ Telephonic b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☒ No.
If Yes, brief description: _____.

Claim(s) discussed: *1,21 and 28*.

Identification of prior art discussed: *None*.

Agreement with respect to the claims f)☒ was reached. g)☐ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Applicant's Representative, Mr. Swanson, Reg. No. 48,226, faxed a copy of the agreed-upon amended claims to examiner's personal fax. These are attached to this interview summary. Examiner has copied these amendments into the Examiner's Amendment. The Applicant's Representative also faxed this amendment to the official fax number.* .

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

_____
Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)
In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Srikanth Akkaram et al.

Serial No.: 10/065,740

Filed: November 14, 2002

For: Method, System And Computer Product for Performing New Material Development

§

Group Art Unit: 2123

Examiner: Sharon, Ayal I.

Atty. Docket: 125989-1
GERD:0503/SWA

CERTIFICATE OF TRANSMISSION OR MAILING
37 C.F.R. 1.8

I hereby certify that this correspondence is being transmitted by facsimile to the United States Patent and Trademark Office in accordance with 37 C.F.R. 1.6(d) or is being deposited with the U.S. Postal Service as First Class Mail with sufficient postage in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

November 15, 2006
Date

Tait R. Swanson

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INTERVIEW SUMMARY AND PROPOSED AMENDMENT
(FOR DISCUSSION PURPOSES ONLY – DO NOT ENTER)

The Applicants hereby submit the following interview summary and proposed amendment to expedite allowance of the above-referenced application.

IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. § 1.121.

1. (currently amended) A method for ~~performing new material development~~simulating new materials, the method comprising:

receiving a user simulation scenario from a user, wherein:

said user simulation scenario is in a-cyclic graph format and includes a plurality of material development modules represented as vertices including a starting module, wherein the material development modules comprise material design and testing modules configured to predict material characteristics resulting from one or more material design simulations;

each said vertex includes material characteristic data information including at least one input file source and at least one output file destination;

relationships between said modules are represented as edges;

each said edge includes at least one of previous module and subsequent module; and

each said edge includes data flow information between said previous module and said subsequent module;

receiving a request to invoke said user simulation scenario, wherein said request includes said input file source for said starting module;

traversing said vertices along said edge in response to receiving said request and to said data flow information, wherein said traversing includes executing said modules associated with each said vertex beginning with said starting module in an order specified by said ~~edges~~ edges, and said executing produces results including material characteristic data ~~being~~ written to said output file destination for each said vertex; and

outputting the results to a central workstation ~~to enable~~for collaborative material development via one or more remote user interfaces.

2. (original) The method of claim 1 further comprising creating said user simulation scenario, wherein said creating includes:

receiving said plurality of material development modules and said edges from said user wherein said plurality of material development modules and said edges are selected from a library of available material development modules and associated edges;

verifying that said plurality of material development modules and said edges form a subset of a scenario library;

generating said user simulation scenario in response to said verifying; and

confirming with said user that said user simulation scenario is correct in response to said generating.

3. (original) The method of claim 2 wherein said scenario library includes said library of available material development modules and all possible relationships between said material development modules represented in a-cyclic graph format.

4. (original) The method of claim 1 further comprising providing the results of said traversing to said user.

5. (currently amended) The method of claim 4 wherein said providing includes allowing said user to browse all or a subset of said material characteristic data written to said output file destination for each said vertex and said input file source.

6. (currently amended) The method of claim 4 wherein said providing includes transmitting all or a subset of said material characteristic data written to said output file destination for each said vertex and said input file source.

7. (currently amended) The method of claim 1 further comprising providing said user with access to a common materials development database that includes said material characteristic data written to said output file destination for each said vertex and said input file source.

8. (original) The method of claim 7 wherein said common materials development database includes material related data, design data and integration data.

9. (original) The method of claim 7 wherein said common materials development database is in a relational database format.

10. (currently amended) The method of claim 7 wherein said common materials development database includes said material characteristic data information.

11. (original) The method of claim 1 wherein said user is a designer.

12. (original) The method of claim 1 wherein said user is a material developer.

13. (original) The method of claim 1 wherein said user is a customer.

14. (original) The method of claim 1 wherein said user is a supplier.

15. (original) The method of claim 1 wherein said material development modules include a process and producibility module.

16. (original) The method of claim 1 wherein said material development modules include a material module.

17. (original) The method of claim 1 wherein said material development modules include a property module.

18. (original) The method of claim 1 wherein said material development modules include a cost and performance model.

19. (original) The method of claim 1 wherein said material development modules include an error propagation model.

20. (canceled)

21. (currently amended) A system for ~~performing new material development~~simulating new materials, the system comprising:

a network;

a user system in communication with said network;

a first storage device including a database component; and

a first host system in communication with said network and said storage device, said first host system including an integration component configured to:

receive a user simulation scenario from a user system via said network, wherein:

said user simulation scenario is in a-cyclic graph format and includes a plurality of material development modules represented as vertices including a starting module;

each said vertex includes material characteristic data information including at least one input file source and at least one output file destination;

relationships between said modules are represented as edges;

each said edge includes at least one of previous module and subsequent module; and

each said edge includes data flow information between said previous module and said subsequent module;

receive a request to invoke said user simulation scenario via said network, wherein said request includes said input file source for said starting module;

traverse said vertices along said edges in response to receiving said request and to said data flow information, wherein said traversing includes executing said modules associated with each said vertex beginning with said starting module in an order specified by said ~~edges~~ edges, and said executing produces results including material characteristic data ~~being~~ written to said output file destination located on said database component for each said vertex; and

output the results to the user system, or the first storage device, or the first host system, or a combination thereof, ~~to enable~~for collaborative material development via one or more remote user interfaces.

22. (original) The system of claim 21 further including a second host system in communication with said network and wherein said second host system includes one of said plurality of material development modules.

23. (original) The system of claim 21 further including a second storage device in communication with said network and wherein a portion of said database component is located on said second storage device.

24. (original) The system of claim 21 wherein said network is the Internet.

25. (original) The system of claim 21 wherein said network is an intranet.

26. (original) The system of claim 21 wherein said network is a LAN.

27. (original) The system of claim 21 wherein said network is a WAN.

28. (currently amended) A ~~tangible~~ computer-readable medium for ~~performing new material development~~simulating new materials, the ~~tangible~~computer-readable medium comprising:

a storage medium readable by a processing circuit and storing instructions for execution by the processing circuit configured to:

receive a user simulation scenario from a user, wherein:

said user simulation scenario is in a-cyclic graph format and includes a plurality of material development modules represented as vertices including a starting module, wherein the material development modules comprise material design and testing modules configured to predict material characteristics resulting from one or more material design simulations;

each said vertex includes material characteristic data information including at least one input file source and at least one output file destination;

relationships between said modules are represented as edges;

each said edge includes at least one of previous module and subsequent module; and

each said edge includes data flow information between said previous module and said subsequent module;

receive a request to invoke said user simulation scenario, wherein said request includes said input file source for said starting module;

traverse said vertices along said edges in response to receiving said request and to said data flow information, wherein said traversing includes executing said modules associated with each said vertex beginning with said starting module in an order specified by said ~~edges~~ edges, and said executing produces results including material characteristic data ~~being~~ written to said output file destination for each said vertex; and

output the results to a central workstation ~~to enable~~for collaborative material development via one or more remote user interfaces.

29. (currently amended) The ~~tangible~~computer-readable medium of claim 28, wherein said instructions are built based on an object oriented framework.

30.-39. (canceled)

40. (previously presented) The method of claim 1, wherein said material design and testing modules comprise material modules including tools configured to test precipitation, grain size, phase analysis, grain growth, or combinations thereof.

41. (previously presented) The method of claim 1, wherein said material design and testing modules comprise property modules including tools configured to test flow stress, low cycle fatigue, ultimate tensile strength, tensile strength, or combinations thereof.

42. (previously presented) The method of claim 1, wherein said material design and testing modules comprise a material module, a property module, a cost and performance model, an error propagation model, or combinations thereof.

43. (previously presented) The system of claim 21, wherein said material development modules comprise material modules including tools configured to test precipitation, grain size, phase analysis, grain growth, or combinations thereof.

44. (previously presented) The system of claim 21, wherein said material development modules comprise property modules including tools configured to test flow stress, low cycle fatigue, ultimate tensile strength, tensile strength, or combinations thereof.

45. (previously presented) The system of claim 21, wherein said material development modules comprise a material module, a property module, a cost and performance model, an error propagation model, or combinations thereof.

46. (currently amended) The ~~tangible~~computer-readable medium of claim 28, wherein said material development modules comprise material modules including tools configured to test precipitation, grain size, phase analysis, grain growth, or combinations thereof.

47. (currently amended) The ~~tangible~~computer-readable medium of claim 28, wherein said material development modules comprise property modules including tools configured to test flow stress, low cycle fatigue, ultimate tensile strength, tensile strength, or combinations thereof.

48. (currently amended) The ~~tangible~~computer-readable medium of claim 28, wherein said material development modules comprise a material module, a property module, a cost and performance model, an error propagation model, or combinations thereof.

INTERVIEW SUMMARY AND REMARKS

On November 14, 2006, the Examiner initiated a telephonic interview with the Applicants' representative, Tait R. Swanson (Reg. No. 48,226), to discuss various informalities and amendments to expedite allowance of the present application. By this paper, the Applicants hereby amend the claims as set forth above. If the Examiner agrees that the application is now in condition for allowance, then the Applicants authorize the Examiner to enter these amendments.

If the Examiner believes that a telephonic interview will help speed this application toward issuance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,

Date: November 15, 2006

Tait R. Swanson
Reg. No. 48,226
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Houston, TX 77269-2289
(281) 970-4545